



## **Horizon 2020**

### **Societal Challenge: Improving the air quality and reducing the carbon footprint of European cities**



#### **Project: 690105 – ICARUS**

Full project title:

**Integrated Climate forcing and Air pollution Reduction in Urban Systems**

#### **MS5: completion of future activity-emission factor matrices for the whole Europe**

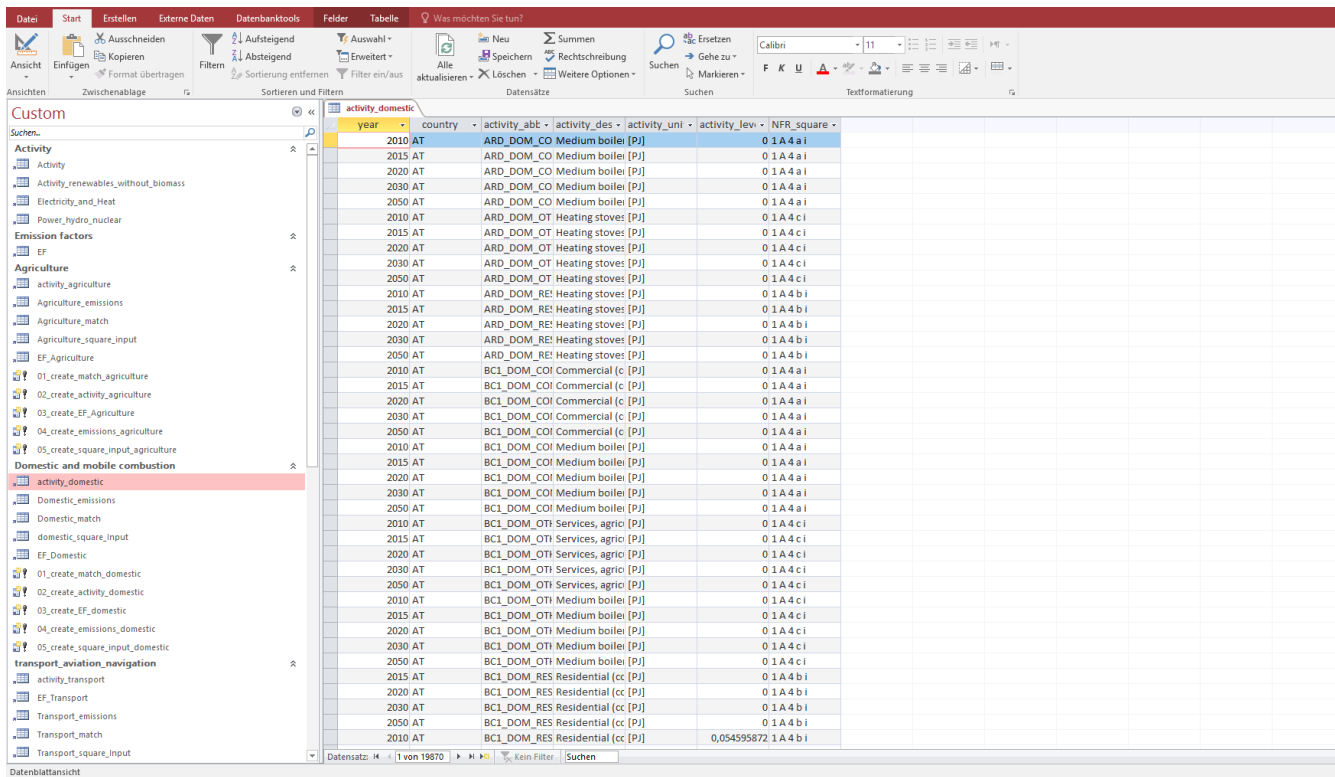
**WP 2: Integrated emission modelling at the regional and urban scales**

Lead beneficiary: USTUTT



## Future activity-emission factor matrices for the whole Europe

Since the activity-emission factor matrix of MS5 is really huge, it is not a single Excel file but an access database. Thus, we cannot send it by mail and an upload on the participant portal is also difficult. At the annual meeting, we agreed with the Coordinator about this and agreed that a screenshot of the database is enough to document that the milestone has been fulfilled (see below). The database structure is also described in detail in the Deliverable 2.1.



The screenshot shows a Microsoft Access database window with a table named 'activity\_domestic'. The table contains the following columns: year, country, activity\_abt, activity\_des, activity\_unit, activity\_lev, and NFR\_square. The data is organized into several categories: Activity, Emission factors, Agriculture, Domestic and mobile combustion, and transport\_navigation. The 'activity\_domestic' table is highlighted in red in the left-hand pane.

Category	Year	Country	Activity_abt	Activity_des	Activity_unit	Activity_lev	NFR_square
Activity	2010	AT	ARD_DOM_CO	Medium boiler [PJ]		0 1 A 4 a i	
	2015	AT	ARD_DOM_CO	Medium boiler [PJ]		0 1 A 4 a i	
	2020	AT	ARD_DOM_CO	Medium boiler [PJ]		0 1 A 4 a i	
	2030	AT	ARD_DOM_CO	Medium boiler [PJ]		0 1 A 4 a i	
	2050	AT	ARD_DOM_CO	Medium boiler [PJ]		0 1 A 4 a i	
Emission factors	2010	AT	ARD_DOM_OT	Heating stoves [PJ]		0 1 A 4 c i	
	2015	AT	ARD_DOM_OT	Heating stoves [PJ]		0 1 A 4 c i	
	2020	AT	ARD_DOM_OT	Heating stoves [PJ]		0 1 A 4 c i	
	2030	AT	ARD_DOM_OT	Heating stoves [PJ]		0 1 A 4 c i	
	2050	AT	ARD_DOM_OT	Heating stoves [PJ]		0 1 A 4 c i	
Agriculture	2010	AT	ARD_DOM_RE	Heating stoves [PJ]		0 1 A 4 b i	
	2015	AT	ARD_DOM_RE	Heating stoves [PJ]		0 1 A 4 b i	
	2020	AT	ARD_DOM_RE	Heating stoves [PJ]		0 1 A 4 b i	
	2030	AT	ARD_DOM_RE	Heating stoves [PJ]		0 1 A 4 b i	
	2050	AT	ARD_DOM_RE	Heating stoves [PJ]		0 1 A 4 b i	
Domestic and mobile combustion	2010	AT	BC1_DOM_COI	Commercial (c) [PJ]		0 1 A 4 a i	
	2015	AT	BC1_DOM_COI	Commercial (c) [PJ]		0 1 A 4 a i	
	2020	AT	BC1_DOM_COI	Commercial (c) [PJ]		0 1 A 4 a i	
	2030	AT	BC1_DOM_COI	Commercial (c) [PJ]		0 1 A 4 a i	
	2050	AT	BC1_DOM_COI	Commercial (c) [PJ]		0 1 A 4 a i	
transport_navigation	2010	AT	BC1_DOM_OTI	Medium boiler [PJ]		0 1 A 4 c i	
	2015	AT	BC1_DOM_OTI	Medium boiler [PJ]		0 1 A 4 c i	
	2020	AT	BC1_DOM_OTI	Medium boiler [PJ]		0 1 A 4 c i	
	2030	AT	BC1_DOM_OTI	Medium boiler [PJ]		0 1 A 4 c i	
	2050	AT	BC1_DOM_OTI	Medium boiler [PJ]		0 1 A 4 c i	
transport_navigation	2010	AT	BC1_DOM_OTI	Services, agric [PJ]		0 1 A 4 c i	
	2015	AT	BC1_DOM_OTI	Services, agric [PJ]		0 1 A 4 c i	
	2020	AT	BC1_DOM_OTI	Services, agric [PJ]		0 1 A 4 c i	
	2030	AT	BC1_DOM_OTI	Services, agric [PJ]		0 1 A 4 c i	
	2050	AT	BC1_DOM_OTI	Services, agric [PJ]		0 1 A 4 c i	
transport_navigation	2010	AT	BC1_DOM_RES	Residential (cc) [PJ]		0 1 A 4 b i	
	2015	AT	BC1_DOM_RES	Residential (cc) [PJ]		0 1 A 4 b i	
	2020	AT	BC1_DOM_RES	Residential (cc) [PJ]		0 1 A 4 b i	
	2030	AT	BC1_DOM_RES	Residential (cc) [PJ]		0 1 A 4 b i	
	2050	AT	BC1_DOM_RES	Residential (cc) [PJ]		0 1 A 4 b i	
transport_navigation	2010	AT	BC1_DOM_RES	Residential (cc) [PJ]		0,054595872 1 A 4 b i	
	2010	AT	BC1_DOM_RES	Residential (cc) [PJ]		0,054595872 1 A 4 b i	